



RECONSTRUCTED AND RENDERED IMAGE

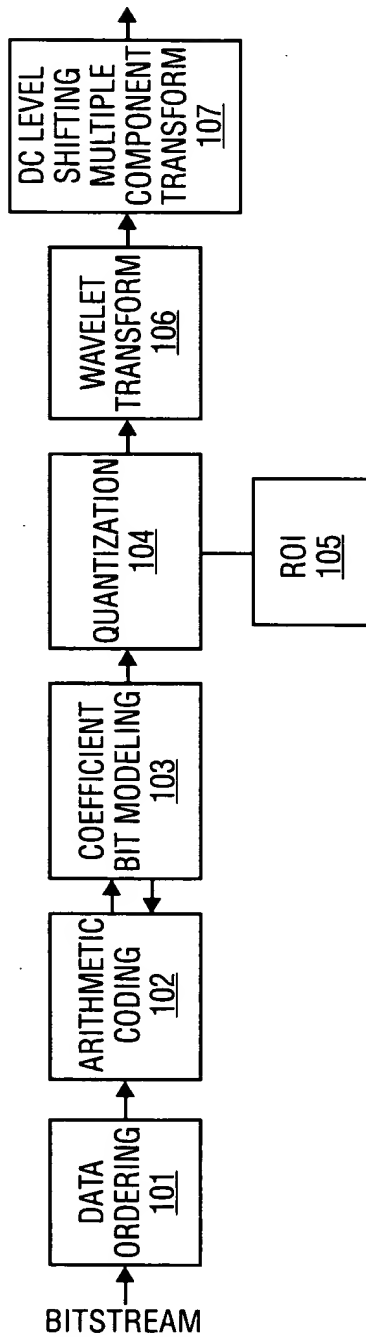


FIG. 1



SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

FIG. 2A

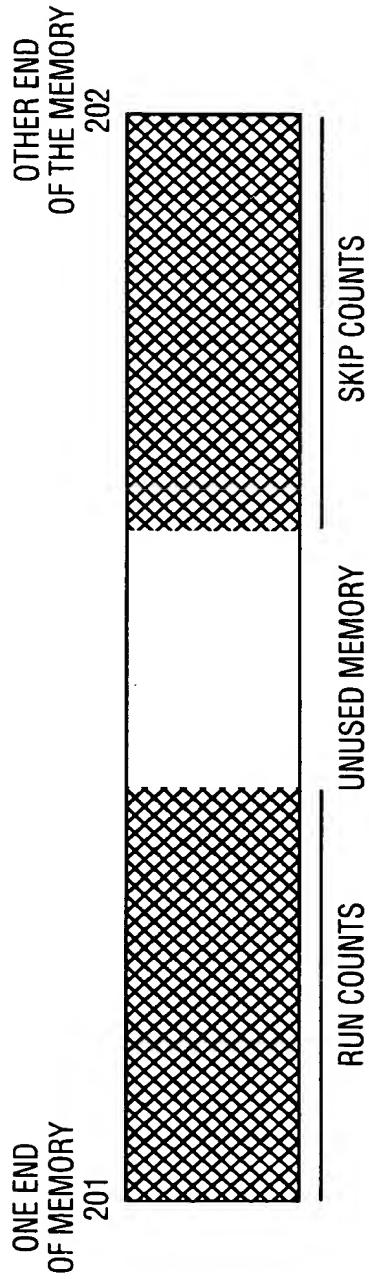


FIG. 2B

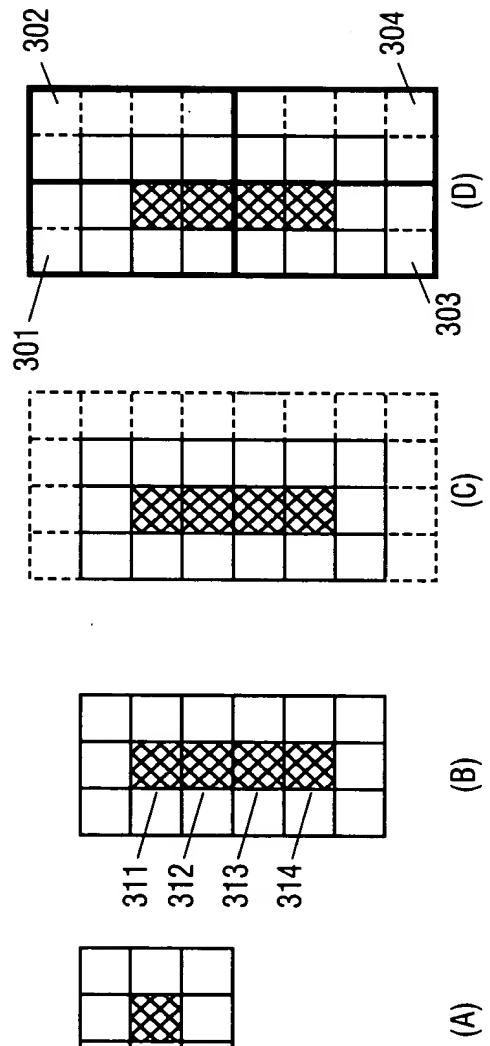


FIG. 3



	0	1	2	3	4	5	6	7
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
0	A	B	A	B	A	B	A	B

FIG. 4

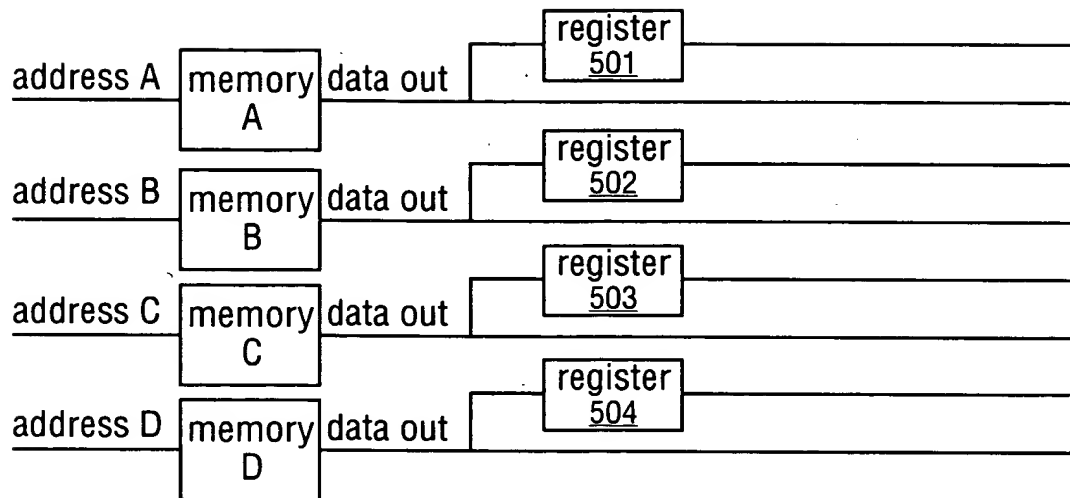


FIG. 5

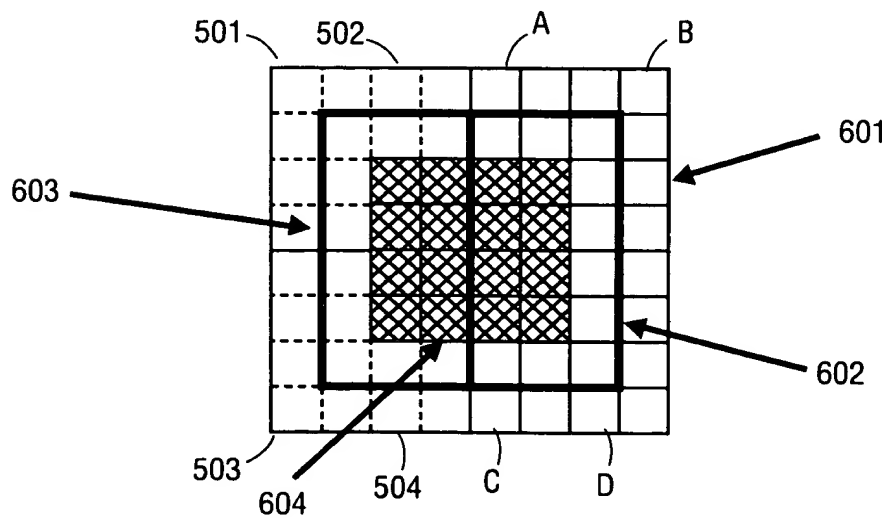


FIG. 6

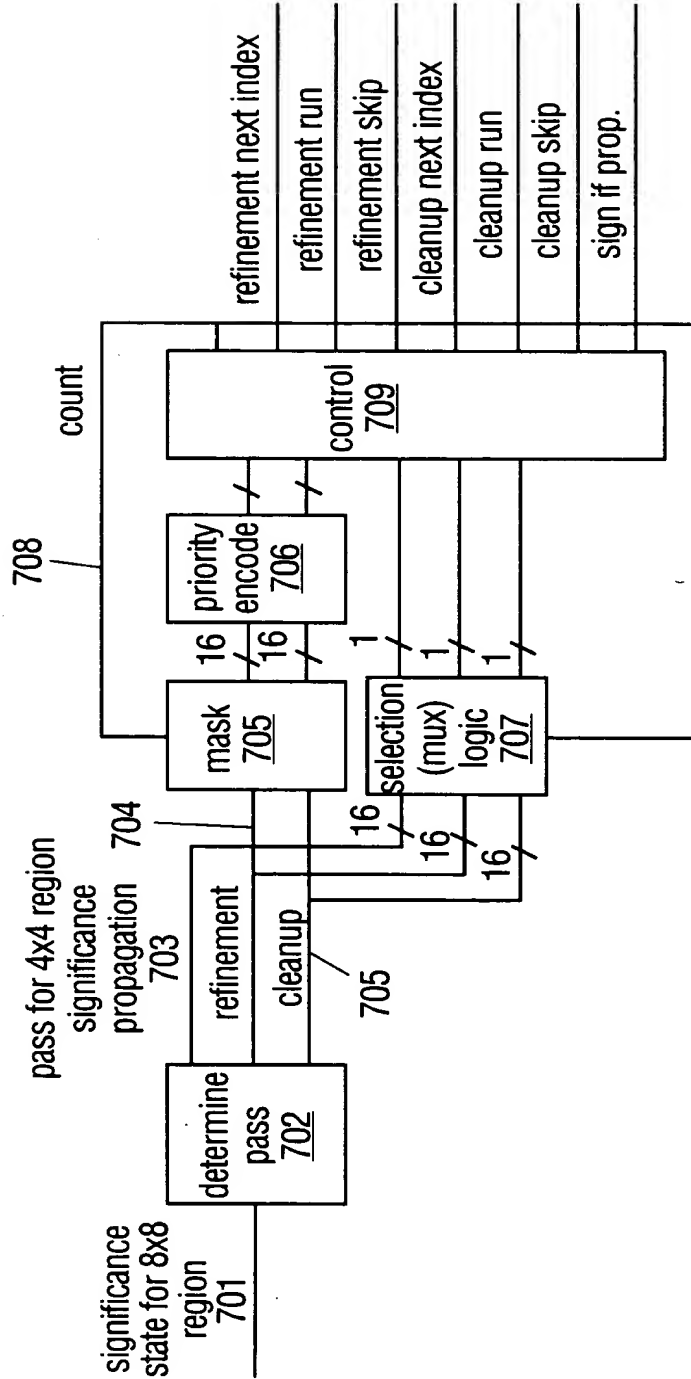


FIG. 7

SP pass: 10\*2 for SP pass coefficients  
           6 for C and R pass coefficients  
 C pass: 4\*2 for C pass coefficients  
 R pass: 2 for R pass  
 total: 36 clocks = 2.25 clocks per coefficient

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

SP = significance propagation  
 C = cleanup  
 R = refinement

FIG. 8



	0	1	2	3
0	A	A	A	A
1	B	B	B	B
2	A	A	A	A
3	B	B	B	B
0	A	A	A	A

FIG. 9

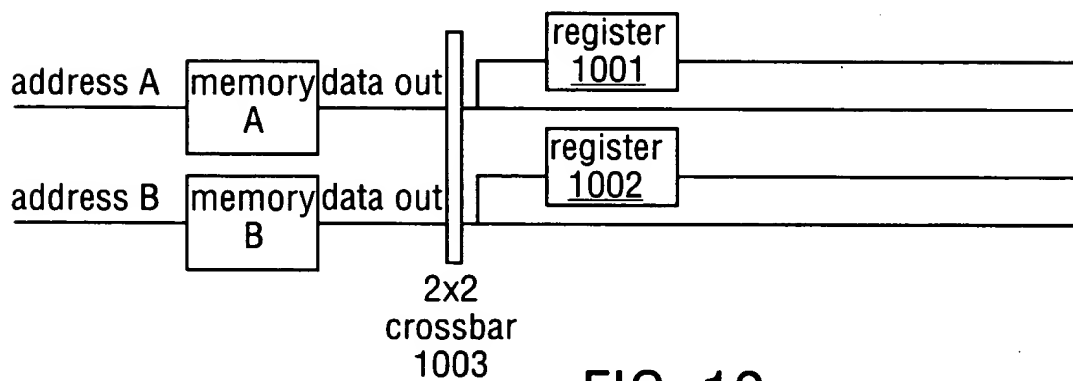


FIG. 10

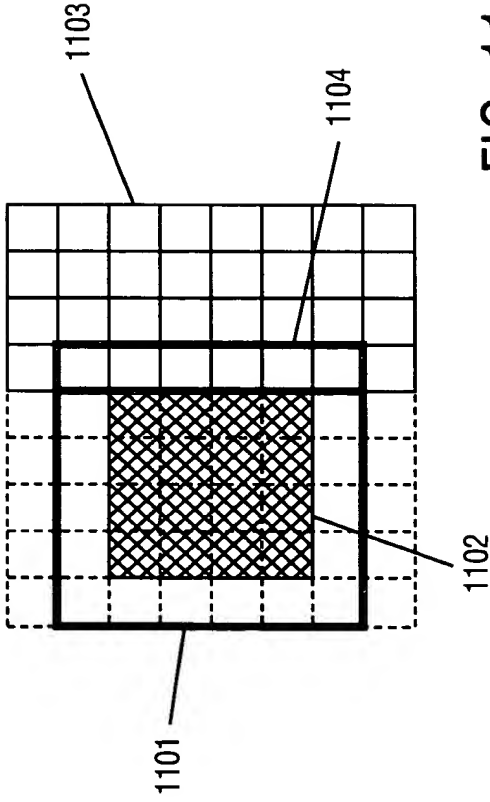


FIG. 11

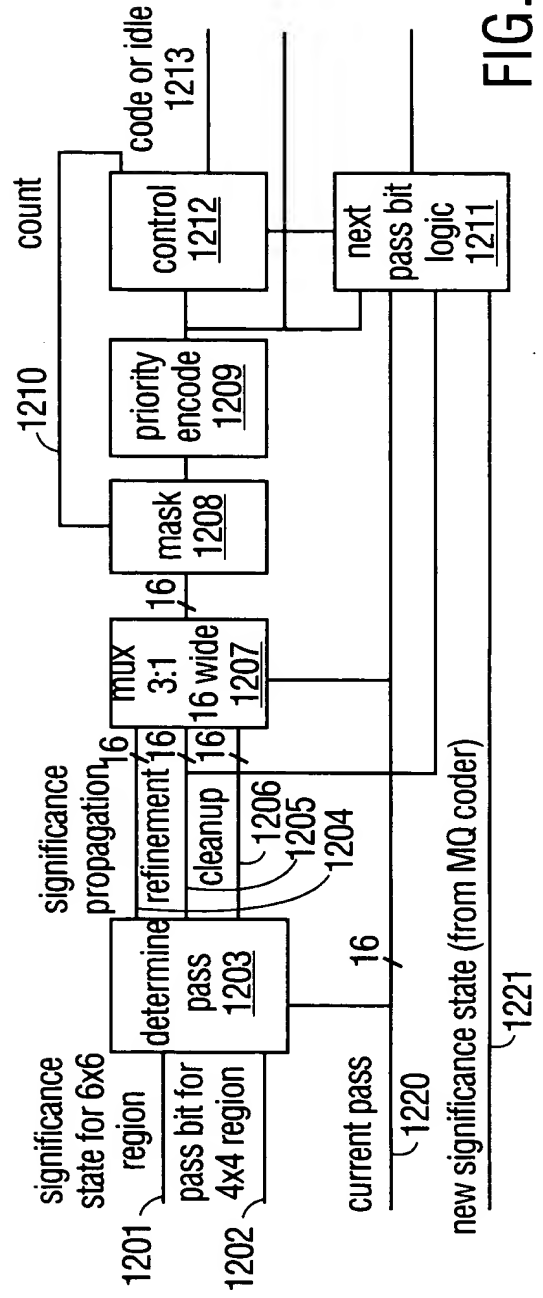


FIG. 12



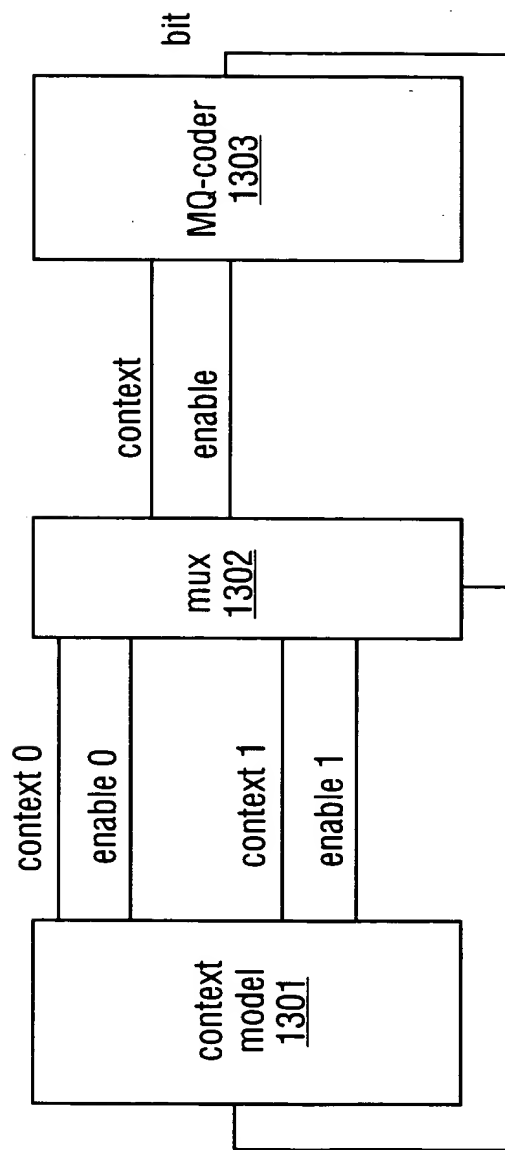


FIG. 13

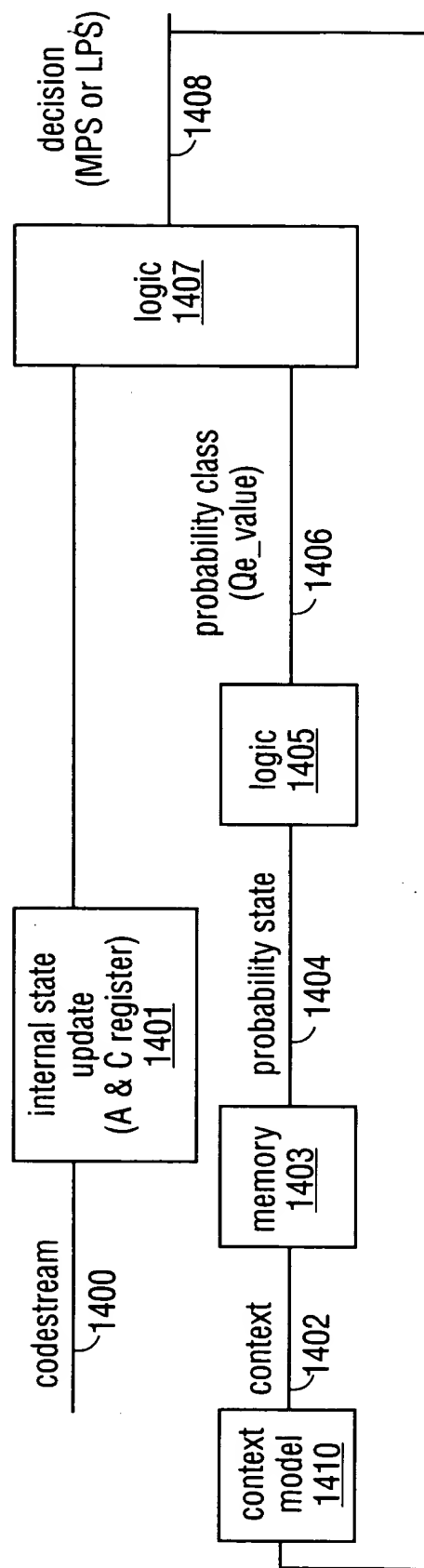


FIG. 14A

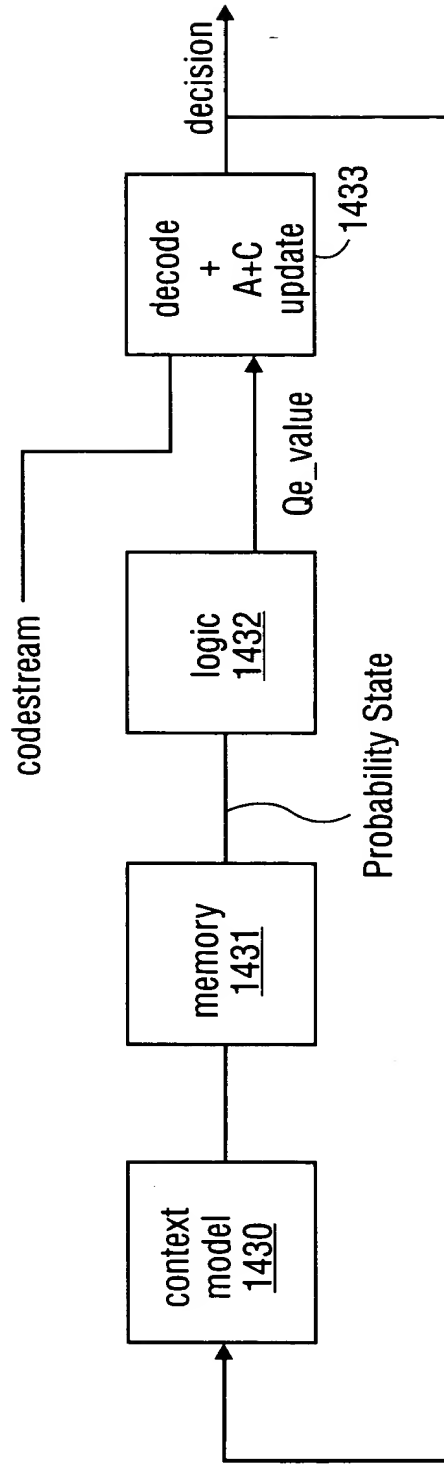


FIG. 14B

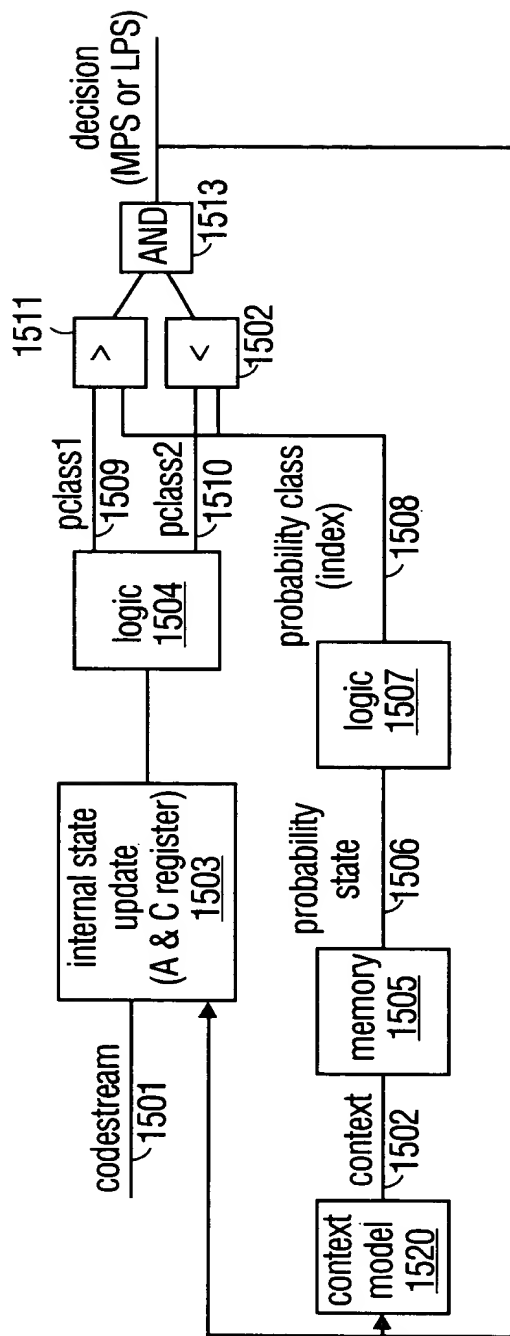


FIG. 15

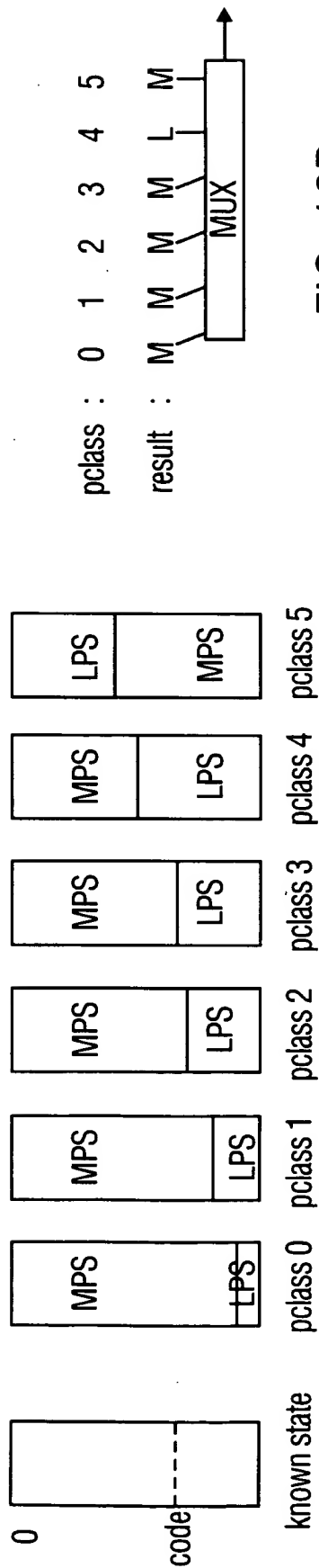


FIG. 16A

FIG. 16B



5MPS
4 MPS
3 MPS
2 MPS
1 MPS
LPS

FIG. 17

luminance

chrominance

chrominance

A	A	A	D
A	A		
A		A	
A		A	

B	B	B	D
B	B		
B		B	
B		B	

C	C	C	D
C	C		
C		C	
C		C	

(A)

A	A	A	B
A	A		
A		A	
B		A	

C	C	C	D
C	C		
C		C	
D		C	

E	E	E	F
E	E		
E		E	
F		E	

(B)

F	F	B	C
F	F		
A		A	
A		B	

G	G	C	F
G	G		
B		C	
D		H	

E	E	E	E
E	E		
D		D	
G		H	

(C)

FIG. 18



luminance

A	A	A	B
A	A		
A		A	
B		A	

chrominance

C	C	C	
C	C		
C		C	
C			

chrominance

D	D	D	
D	D		
D		D	
D			

(A)

F	F	F	C
A	A		
F		F	
A			

B	B	C	
C	C		
A		B	
D			

D	D	F	
E	E		
D		E	
E			

(B)

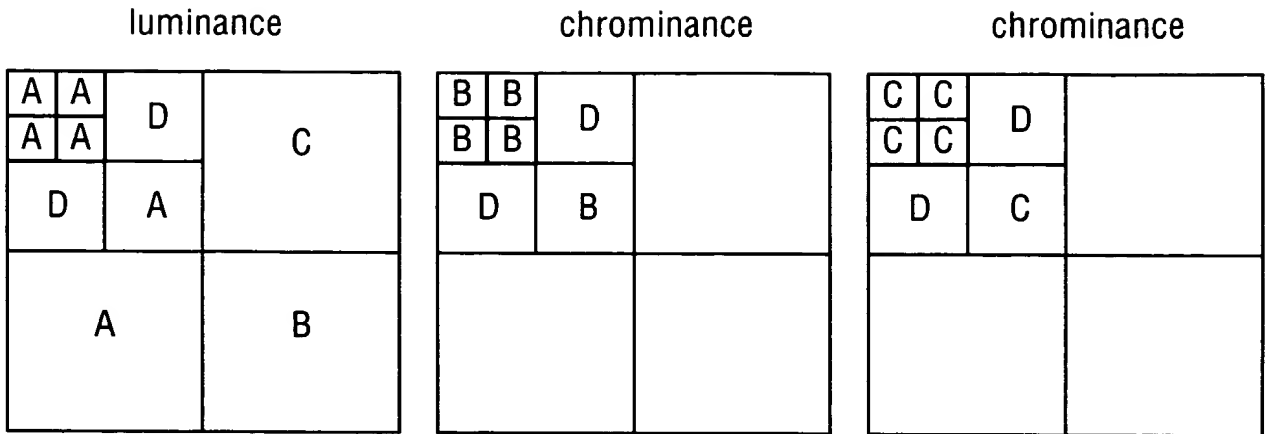
A	A	A	C
A	A		
A		A	
B			

E	E	E	
E	E		
E		E	
F			

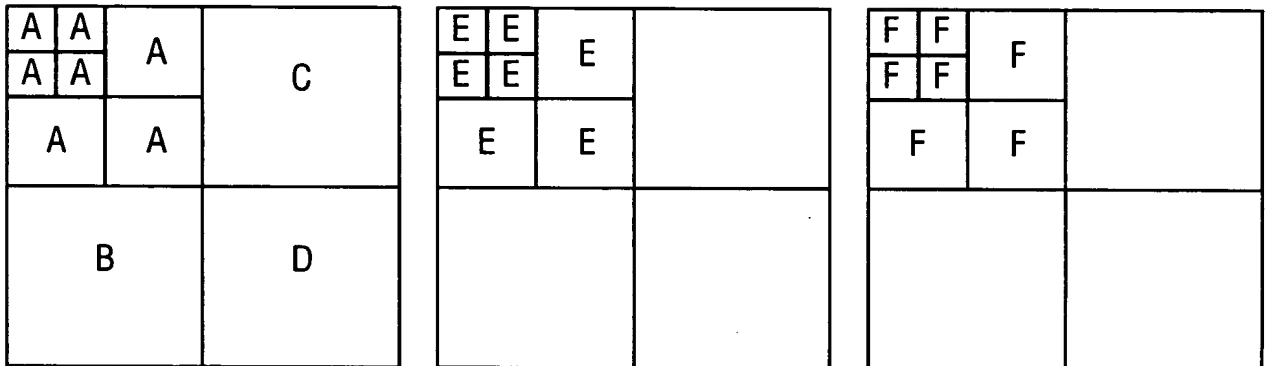
G	G	G	
G	G		
G		G	
H			

(C)

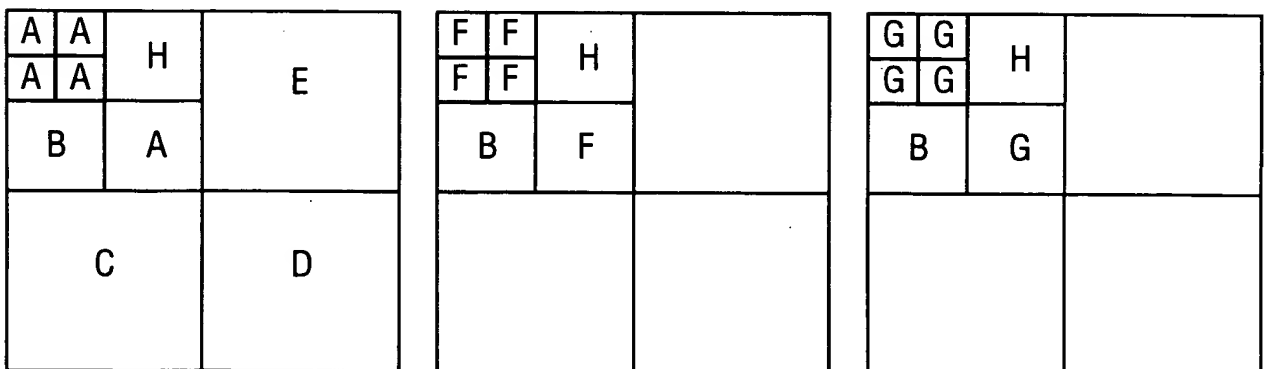
FIG. 19



(A)



(B)



(C)

FIG. 20

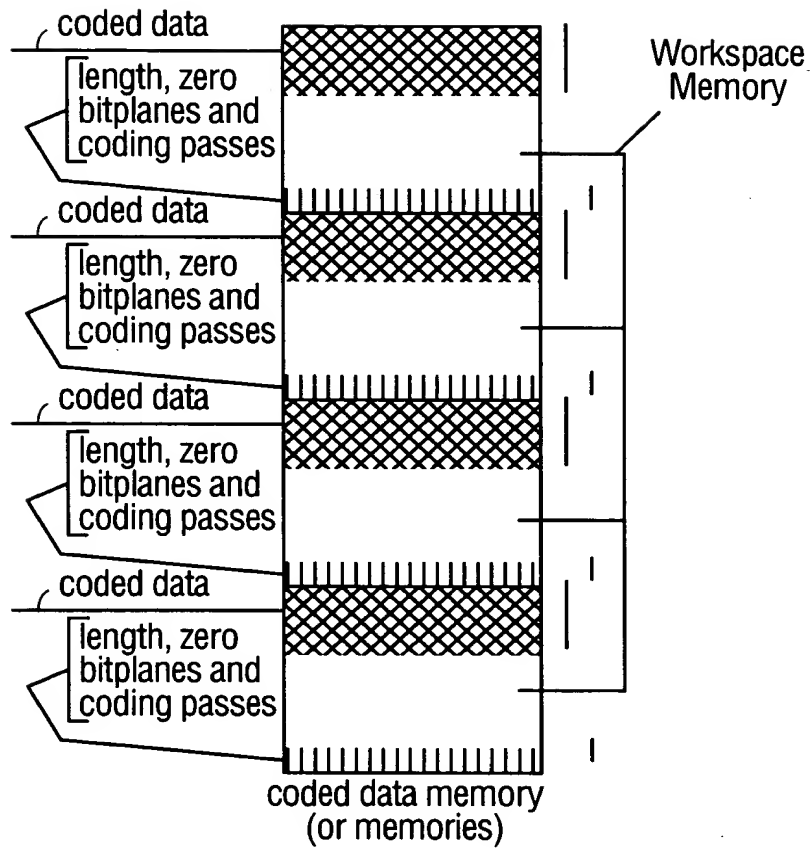
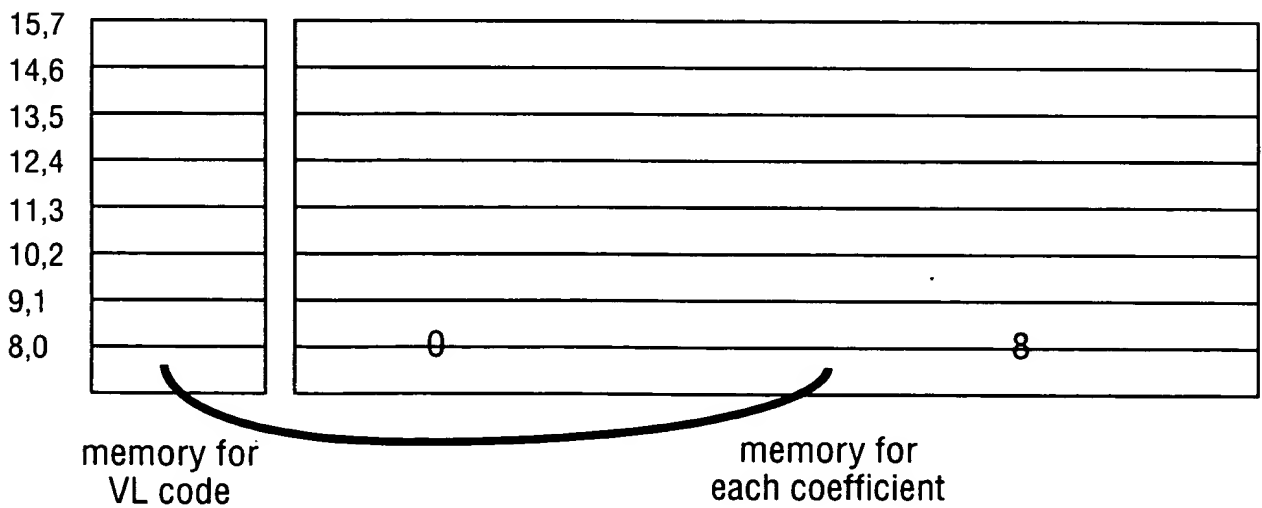
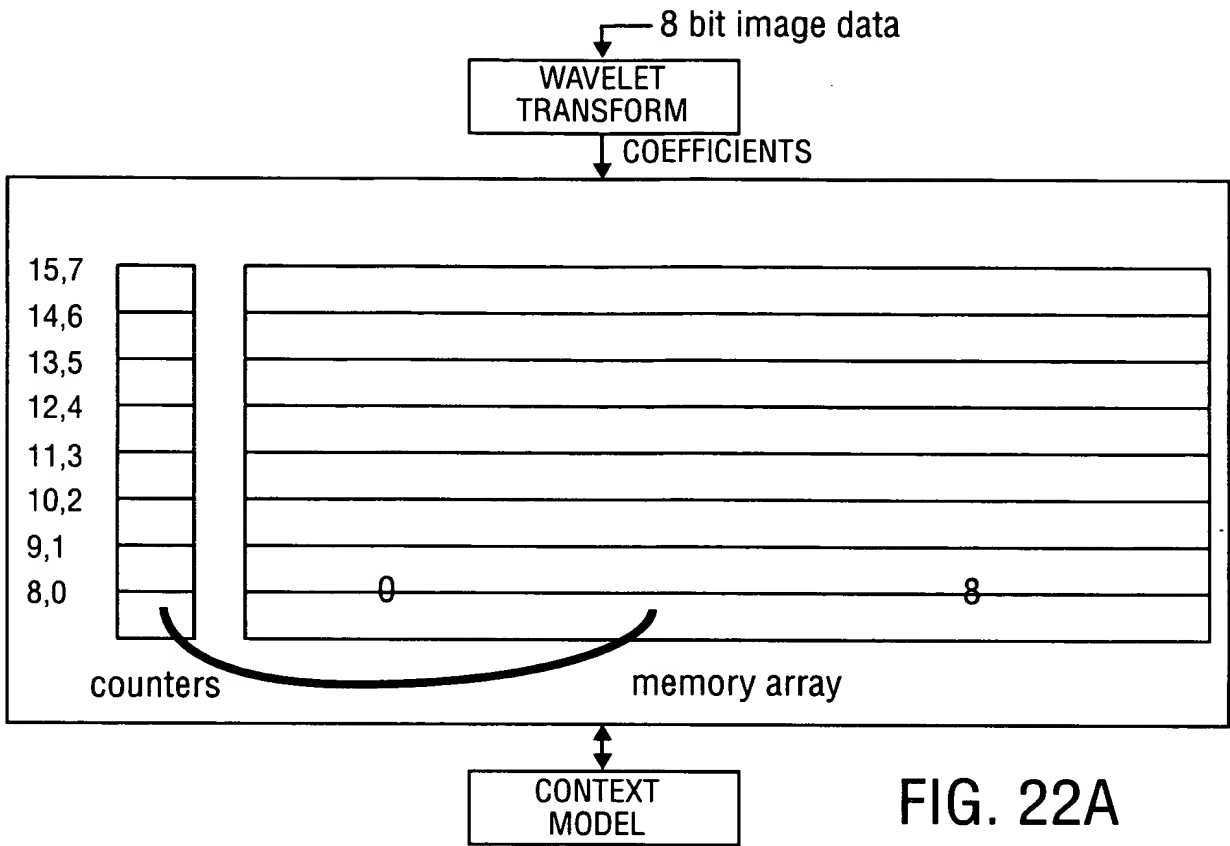


FIG. 21





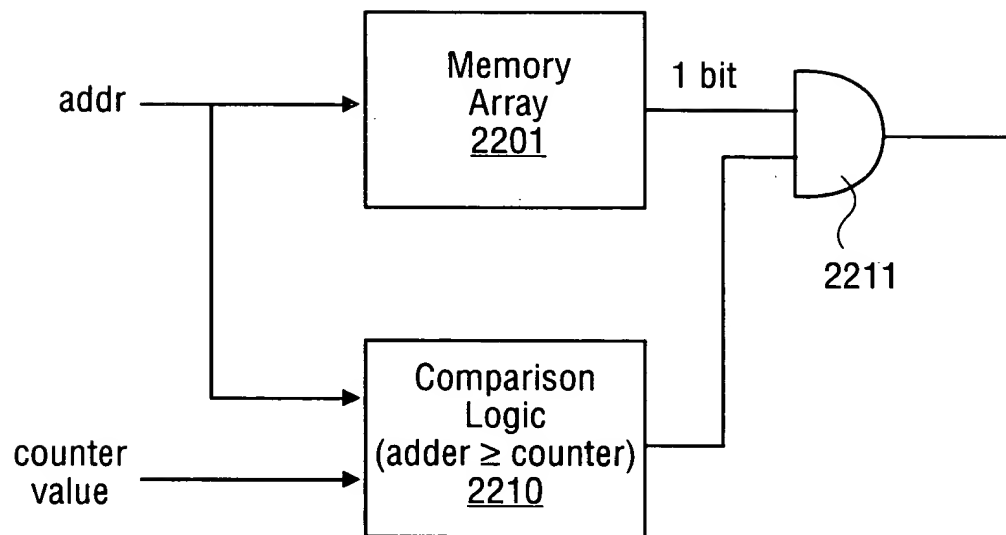
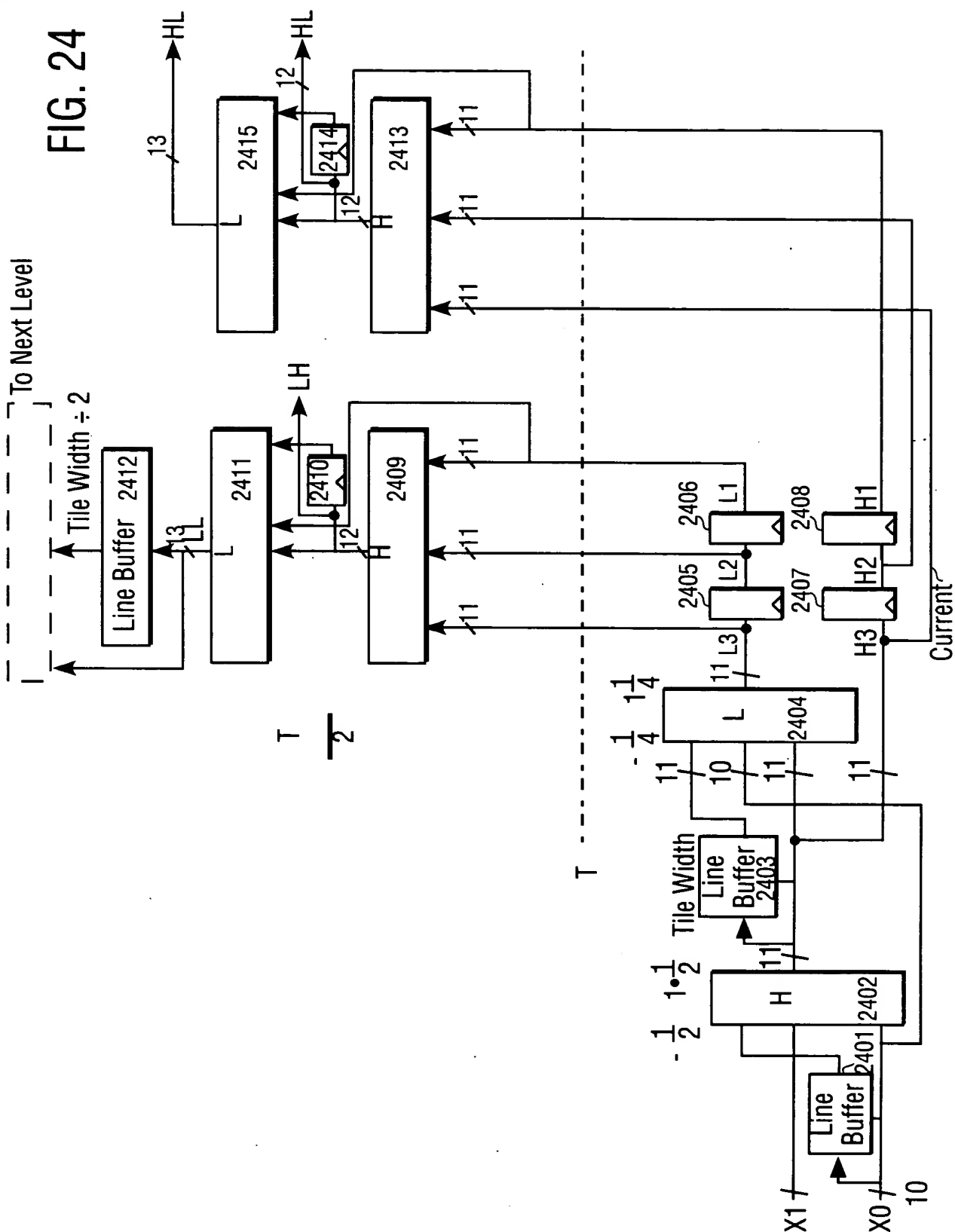


FIG. 22B



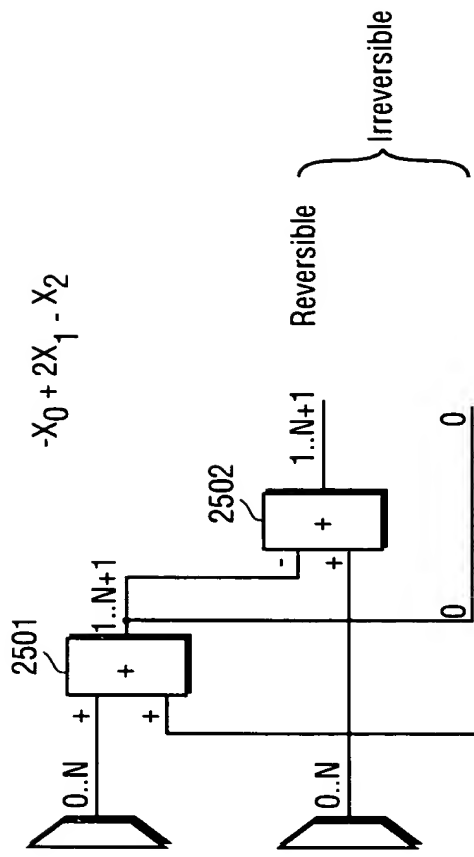


FIG. 25A

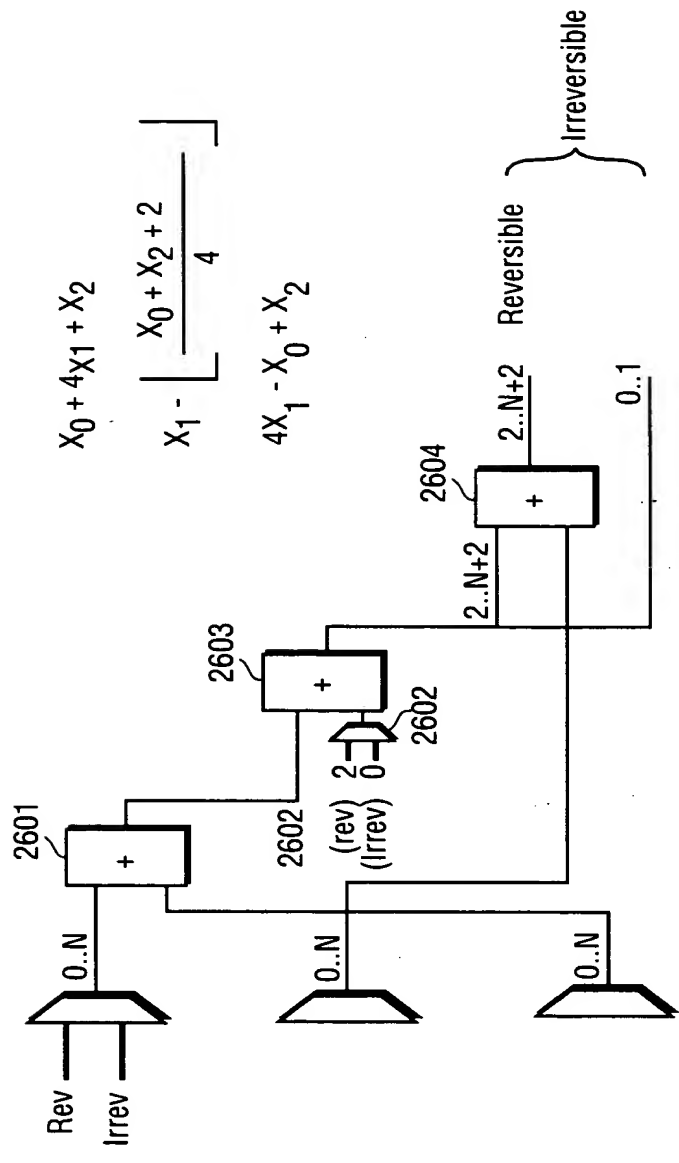
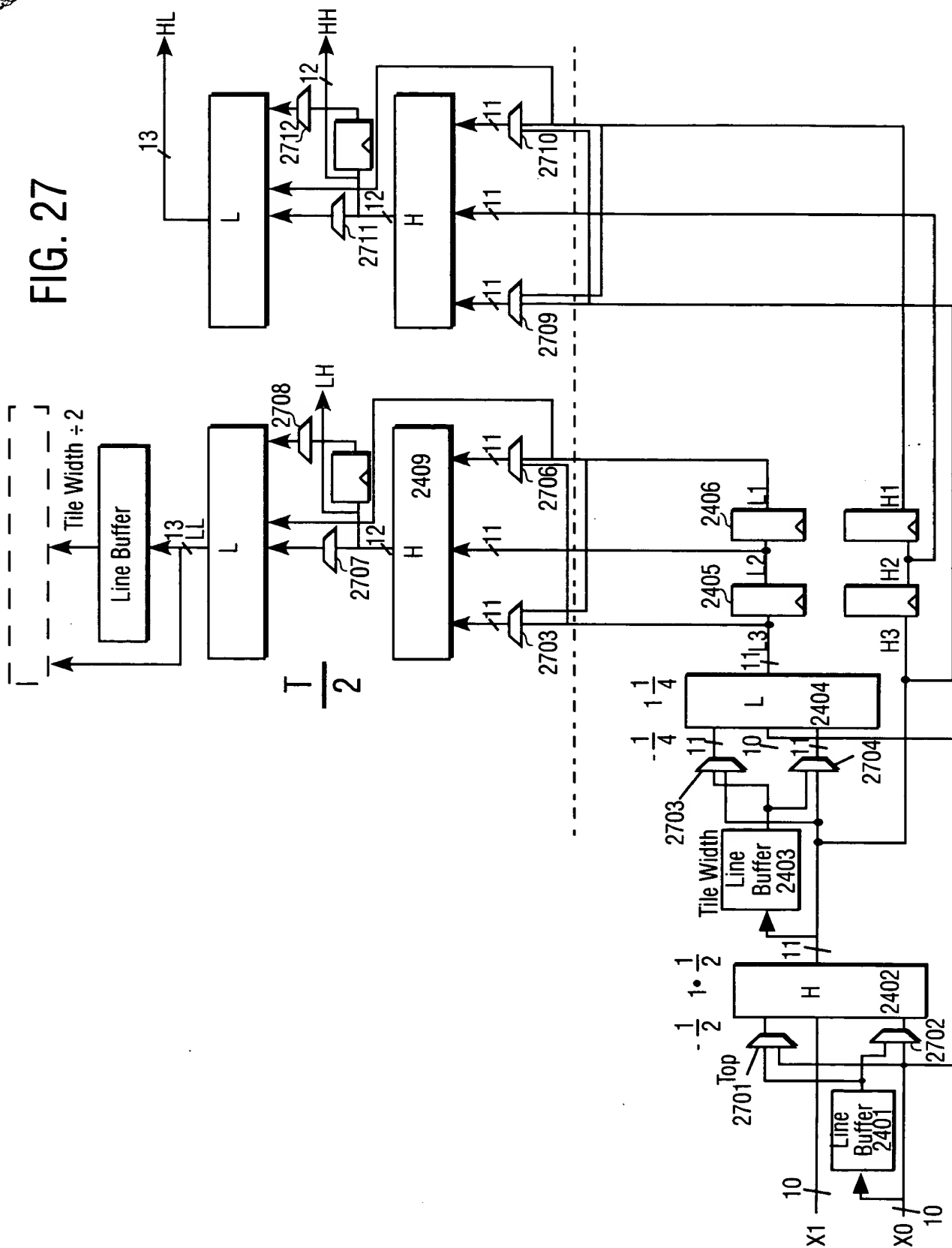


FIG. 26A

FIG. 26B



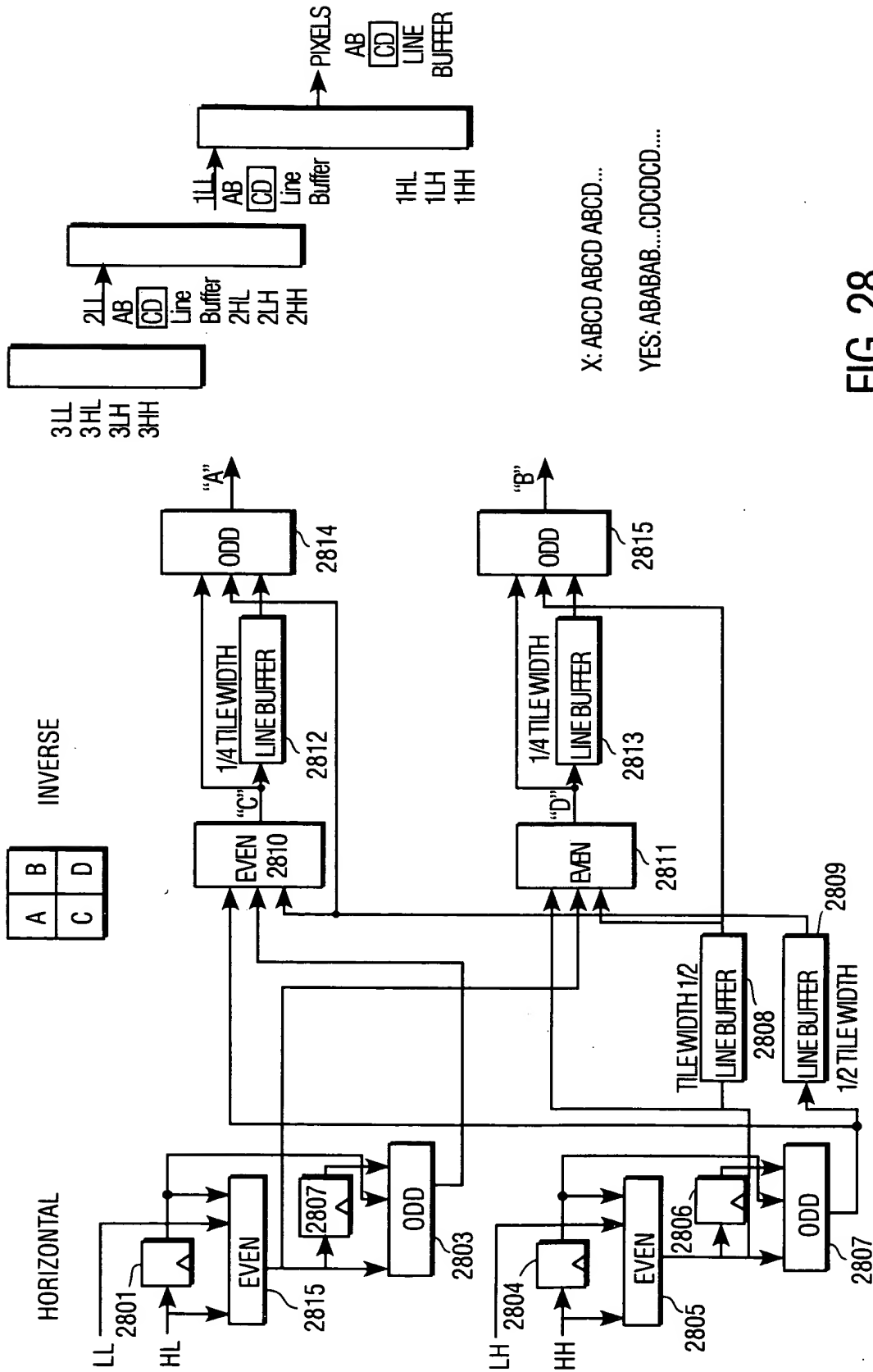


FIG. 28

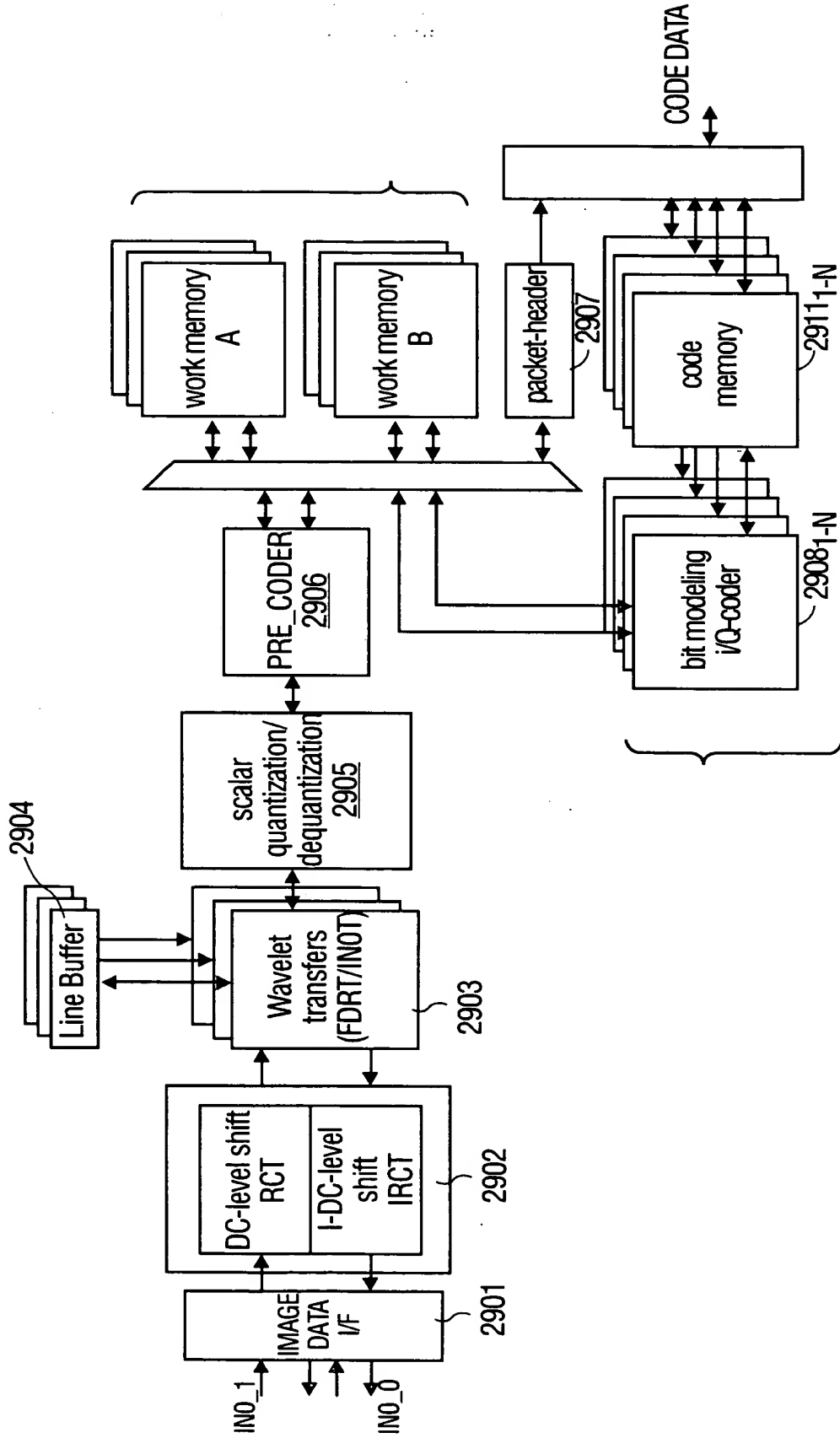


FIG. 29



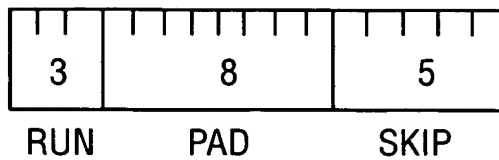


FIG. 30

8x8 region

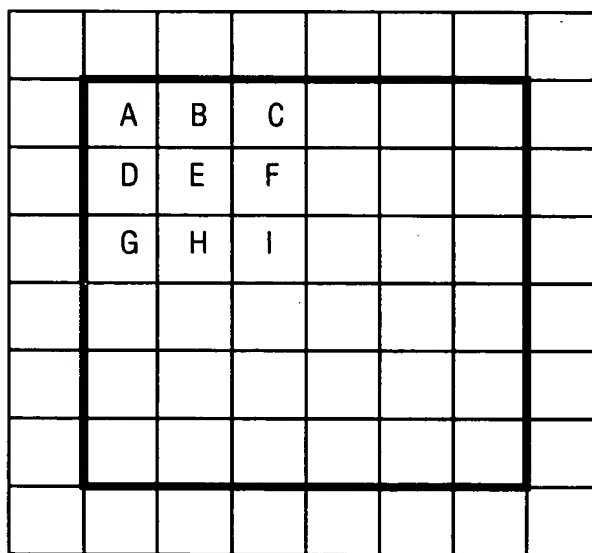


FIG. 31

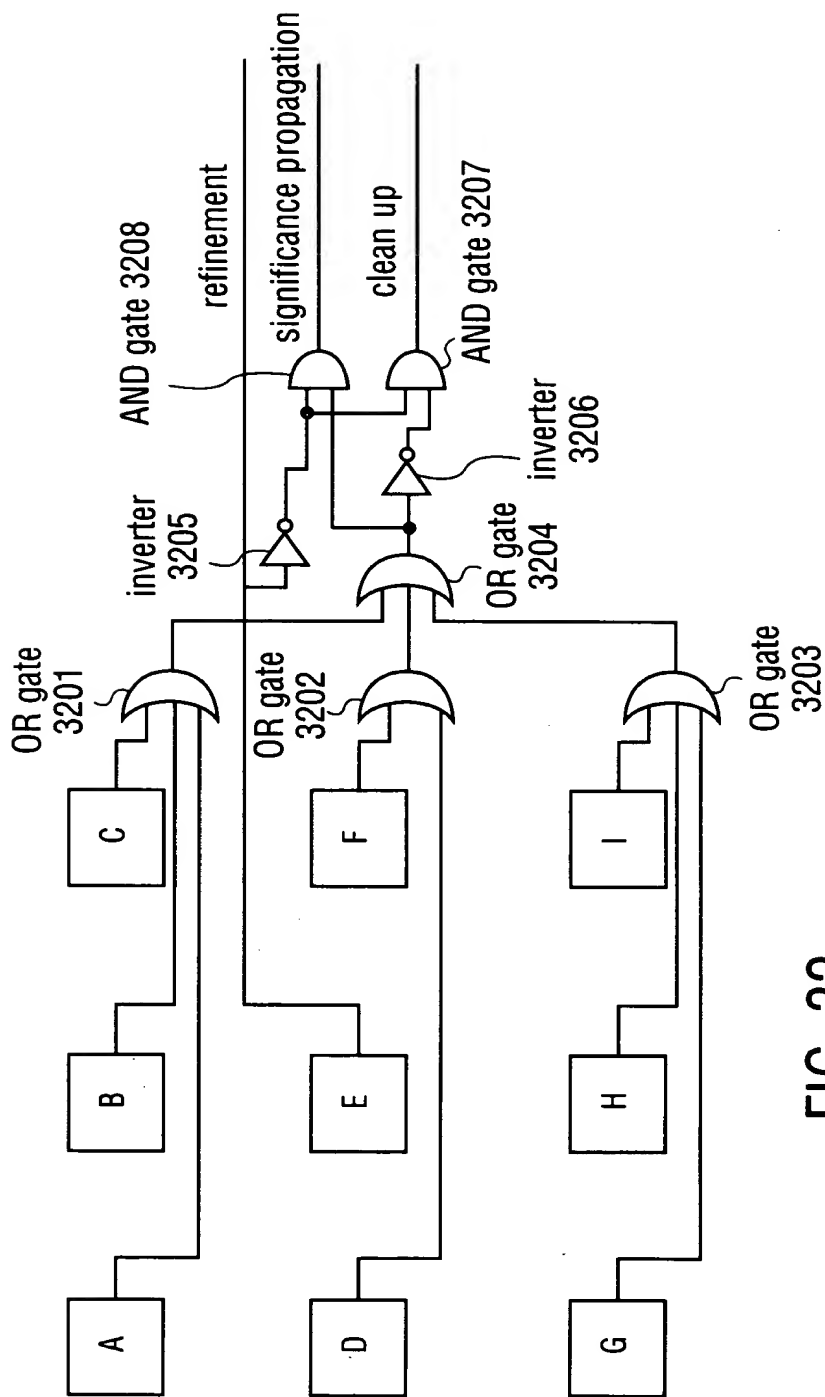


FIG. 32